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[54] DYE LASERS USING 2-(4-PYRIDYL)-5-ARYLOXAZOLES AND QUATERNARY SALTS OF THESE COMPOUNDS

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[58] Field of Search 372/53; 252/301.16, 252/301.17, 301.26, 301.28; 546/275; 548/235

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[57] ABSTRACT

2-(4-pyridyl)-5-aryloxazoles and certain quaternary salts of these compounds are useful as visible-wavelength lasing dyes. These dyes are used in solution with non-interferring polar solvents, such as low molecular weight alcohols, H_2O, and D_2O, to form lasing media useful in dye lasers. Such lasers generally include a reservoir for containing the laser dye solution and a pumping energy source operably coupled therewith for producing stimulated emission of the dye solution.

18 Claims, No Drawings